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SUZUMURA MASAKI**(54) OXIDE MAGNETIC SUBSTANCE MATERIAL****(57)Abstract:**

PURPOSE: To obtain an oxide magnetic substance material which is excellent in the temperature characteristic of a magnetic loss and whose magnetic loss is low by a method wherein at least CaO and SiO₂ in a specific amount and at least one kind of a specific metal oxide are contained in an MnZn-based ferrite within a specific composition range.

CONSTITUTION: Fe₂O₃ at 61mol% or higher and 67mol% or lower, MnO at 3mol% or higher and 36mol% or lower and ZnO at 0mol% or higher and 30mol% or lower are contained as main compositions, and 0.05≤CaO≤0.5wt.% and 0.005≤SiO₂≤0.2wt.% are contained as subcomponents. In addition, an oxide magnetic substance material is constituted as a sintered body which contains at least one kind of a metal oxide out of TiO₂, CoO, CuO, SnO₂ and NiO at 0.005wt.% or higher and 0.5wt.% or lower. Thereby, it is possible to obtain the material whose magnetic loss is low and whose temperature characteristic is excellent. A switching power supply using it generates little heat, is highly efficient and displays the small danger of a temperature runaway.

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